

### ⚡ Specifications

#### Nominal Voltage(V)

2V

#### Nominal Capacity at 25°C(77°F)

10 hour rate	(30A to 1.80V)	300Ah
5 hour rate	(48A to 1.80V)	240Ah
3 hour rate	(75A to 1.80V)	225Ah
1 hour rate	(180A to 1.80V)	180Ah

#### Weight

≥20kg(44Lbs.)

#### Internal Resistance (at 1KHz)

≤0.5mΩ

#### Maximum Discharge Current for

5 seconds: 1800A

#### Charging Methods at 25°C(77°F)

Cycle use:

Charging Voltage 2.33 to 2.45V

Coefficient -5.0mV/°C/cell

Maximum Charging Current : 90A

Standby use:

Float Charging Voltage 2.20 to 2.30V

Coefficient -3.0mV/°C/cell

#### Operating Temperature Range

Charge -20°C(4°F) to 60°C(140°F)

Discharge -20°C(4°F) to 60°C(140°F)

Storage -20°C(4°F) to 60°C(140°F)

#### Charge Retention (shelf life) at 25°C(77°F)

1 month 98%

3 month 94%

6 month 85%

#### Case Material

ABS UL94 HB

Option: Flammability resistance of (UL94 V-0)

#### Design Life

15 Years.

#### Terminal

F18

#### Battery Construction



### ⚡ Dimensions

#### Length (L)

170±3 (6.69±0.12)

#### Width (W)

150±3 (5.91±0.12)

#### Height (H)

333±3 (13.11±0.12)

#### Overall Height (HT)

342.5±3 (13.48±0.12)

#### Description of torque value of hard ware for the terminals:

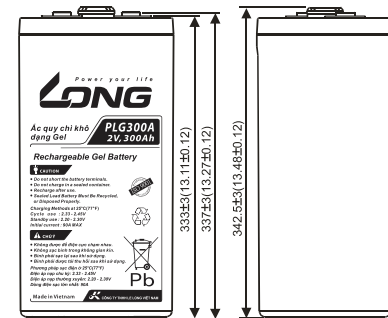
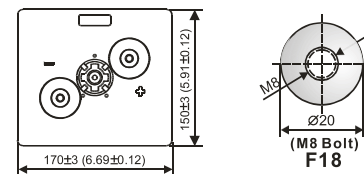
Recommended torque value

M8:12 N-m(122kgf-cm)

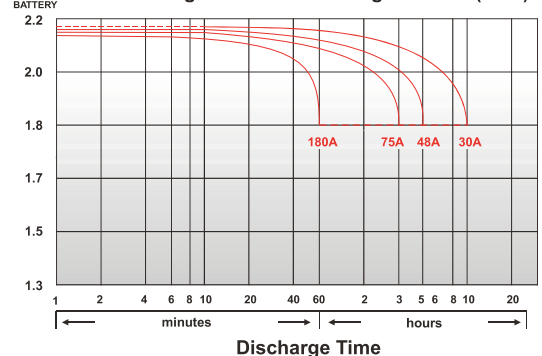
Maximum allowable torque value

M8:20 N-m(204kgf-cm)

mm(inch)

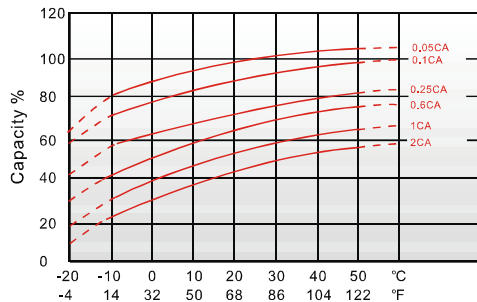


(V) FOR 2V BATTERY Discharge Time VS. Discharge Current (25°C)

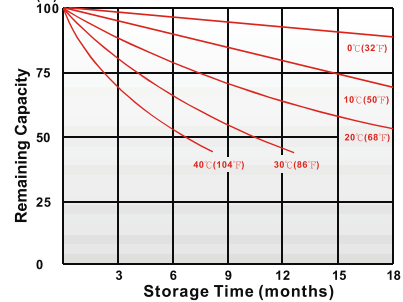


Positive plate	Negative Plate	Electrolyte	Terminal	Safety valve	Separator	Efficient gas recombination
Lead dioxide	Lead	Gelled Sulfuric acid	Copper	Rubber	PE	99%

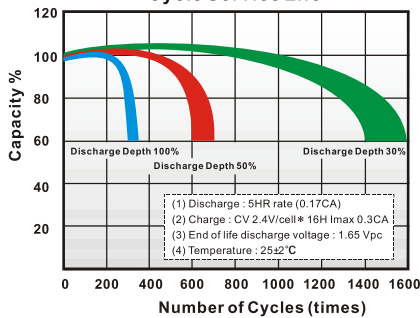
Effect of Temperature on Capacity 25°C(77°F)



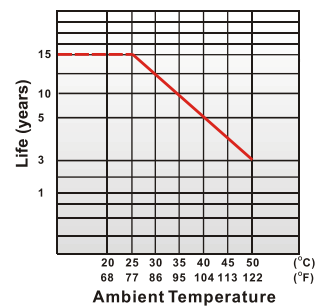
Capacity Retention Characteristic



Cycle Service Life



Trickle (or float) Service Life (25°C)



### - PERFORMANCE DATA

#### Discharge Rates in Watts to Various End Voltages at 25°C(77°F)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.65V	1.60V
Time							
20	min	490	549	582	612	642	657
30	min	459	488	511	528	550	557
60	min	258	282	300	315	331	336
120	min	159	169	179	187	196	200
180	min	121	129	137	143	152	155
240	min	103	109	114	119	123	125
300	min	90.9	96.0	99.8	104	107	108
480	min	64.2	67.4	69.8	71.9	73.7	74.5
600	min	53.9	56.6	58.7	60.4	61.9	62.4
1200	min	28.7	29.9	30.8	31.5	32.4	32.8

#### - Discharge Rates in Amperes to Various End Voltages at 25°C(77°F)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.65V	1.60V
Time							
20	min	234	274	301	328	351	362
30	min	207	238	262	284	302	309
60	min	169	180	182	184	186	187
120	min	88.3	92.4	96.9	101	105	107
180	min	70.0	75.0	76.2	77.4	78.8	79.6
240	min	51.4	54.8	57.3	59.4	62.6	63.1
300	min	44.7	48.0	49.5	51.3	53.3	54.2
480	min	31.7	33.3	34.5	35.5	36.7	37.1
600	min	27.6	30.0	30.2	30.8	31.7	31.9
1200	min	14.2	15.1	15.3	15.8	16.2	16.4

All data on the spec. sheet is an average value:

The tolerance range :  $X < 6\text{min}$  (+15%~-15%),  $6\text{min} \leq X < 10\text{min}$  (+12%~-12%),  $10\text{min} \leq X < 60\text{min}$  (+8%~-8%),  $X \geq 60\text{min}$  (+5%~-5%)

150323-1A-VNM0453